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NEWS	1		Web Page for STN Seminar Schedule - N. America
NEWS	2	JUN 06	EPFULL enhanced with 260,000 English abstracts
NEWS	3	JUN 06	KOREAPAT updated with 41,000 documents
NEWS	4	JUN 13	USPATFULL and USPAT2 updated with 11-character patent numbers for U.S. applications
NEWS	5	JUN 19	CAS REGISTRY includes selected substances from web-based collections
NEWS	6	JUN 25	CA/CAPLUS and USPAT databases updated with IPC reclassification data
NEWS	7	JUN 30	AEROSPACE enhanced with more than 1 million U.S. patent records
NEWS	8	JUN 30	EMBASE, EMBAL, and LEMBASE updated with additional options to display authors and affiliated organizations
NEWS	9	JUN 30	STN on the Web enhanced with new STN AnaVist Assistant and BLAST plug-in
NEWS	10	JUN 30	STN AnaVist enhanced with database content from EPFULL
NEWS	11	JUL 28	CA/CAPLUS patent coverage enhanced
NEWS	12	JUL 28	EPFULL enhanced with additional legal status information from the EPOline Register
NEWS	13	JUL 28	IFICDB, IFIPAT, and IFIUDB reloaded with enhancements
NEWS	14	JUL 28	STN Viewer performance improved
NEWS	15	AUG 01	INPADOCDB and INPAFAMDB coverage enhanced
NEWS	16	AUG 13	CA/CAPLUS enhanced with printed Chemical Abstracts page images from 1967-1998
NEWS	17	AUG 15	CAOLD to be discontinued on December 31, 2008
NEWS	18	AUG 15	CAPLUS currency for Korean patents enhanced
NEWS	19	AUG 27	CAS definition of basic patents expanded to ensure comprehensive access to substance and sequence information
NEWS	20	SEP 18	Support for STN Express, Versions 6.01 and earlier, to be discontinued
NEWS	21	SEP 25	CA/CAPLUS current-awareness alert options enhanced to accommodate supplemental CAS indexing of exemplified prophetic substances
NEWS	22	SEP 26	WPIDS, WPINDEX, and WPIX coverage of Chinese and Korean patents enhanced
NEWS	23	SEP 29	IFICLS enhanced with new super search field
NEWS	24	SEP 29	EMBASE and EMBAL enhanced with new search and display fields
NEWS	25	SEP 30	CAS patent coverage enhanced to include exemplified prophetic substances identified in new Japanese-language patents
NEWS	26	OCT 07	EPFULL enhanced with full implementation of EPC2000
NEWS	27	OCT 07	Multiple databases enhanced for more flexible patent number searching

NEWS EXPRESS JUNE 27 08 CURRENT WINDOWS VERSION IS V8.3,  
AND CURRENT DISCOVER FILE IS DATED 23 JUNE 2008.

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COST IN U.S. DOLLARS	SINCE FILE	TOTAL
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STRUCTURE FILE UPDATES: 12 OCT 2008 HIGHEST RN 1060442-20-7  
DICTIONARY FILE UPDATES: 12 OCT 2008 HIGHEST RN 1060442-20-7

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TSCA INFORMATION NOW CURRENT THROUGH July 5, 2008.

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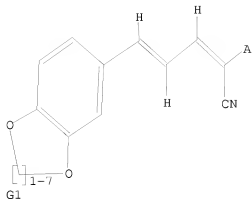
REGISTRY includes numerically searchable data for experimental and predicted properties as well as tags indicating availability of experimental property data in the original document. For information on property searching in REGISTRY, refer to:

<http://www.cas.org/support/stngen/stndoc/properties.html>

=>  
Uploading C:\Program Files\Stnexp\Queries\10593851\_2nd\_action2.str

L1 STRUCTURE UPLOADED

=> d l1  
L1 HAS NO ANSWERS  
L1 STR



Structure attributes must be viewed using STN Express query preparation.

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SAMPLE SEARCH INITIATED 16:22:49 FILE 'REGISTRY'
SAMPLE SCREEN SEARCH COMPLETED -      8 TO ITERATE

100.0% PROCESSED      8 ITERATIONS      0 ANSWERS
SEARCH TIME: 00.00.01
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FULL FILE PROJECTIONS:  ONLINE  **COMPLETE**
                        BATCH   **COMPLETE**
PROJECTED ITERATIONS:   8 TO      329
PROJECTED ANSWERS:      0 TO      0
```

L2 0 SEA SSS SAM L1

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FULL SEARCH INITIATED 16:22:54 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED -      105 TO ITERATE
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100.0% PROCESSED      105 ITERATIONS      7 ANSWERS
SEARCH TIME: 00.00.01
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L3 7 SEA SSS FUL L1

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COST IN U.S. DOLLARS      SINCE FILE      TOTAL
                        ENTRY      SESSION
FULL ESTIMATED COST      178.36      178.57
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FILE 'CAPLUS' ENTERED AT 16:22:59 ON 14 OCT 2008  
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FILE COVERS 1907 - 14 Oct 2008 VOL 149 ISS 16  
FILE LAST UPDATED: 12 Oct 2008 (20081012/ED)

Caplus now includes complete International Patent Classification (IPC)  
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Effective October 17, 2005, revised CAS Information Use Policies apply.  
They are available for your review at:

<http://www.cas.org/legal/infopolicy.html>

=> s l3

L4 8 L3

=> d l4 ibib abs hitstr l-

YOU HAVE REQUESTED DATA FROM 8 ANSWERS - CONTINUE? Y/(N):t

YOU HAVE REQUESTED DATA FROM 8 ANSWERS - CONTINUE? Y/(N):y

L4 ANSWER 1 OF 8 CAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 2005:1075808 CAPLUS

DOCUMENT NUMBER: 143:346899

TITLE: Preparation of styrylacrylonitrile derivatives as  
modulators of cell proliferation

INVENTOR(S): Roifman, Chaim M.; Demin, Peter; Freywald, Andrew;  
Grunberger, Thomas; Rounova, Olga; Sharfe, Nigel

PATENT ASSIGNEE(S): HSC Research and Development Limited Partnership, Can.  
SOURCE: PCI Int. Appl., 181 pp.

CODEN: PIXXD2

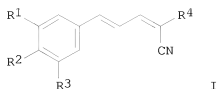
DOCUMENT TYPE: Patent

LANGUAGE: English

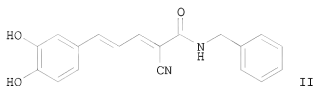
FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2005092904	A1	20051006	WO 2005-CA423	20050322
W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW			
RW:	BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG			
CA 2560584	A1	20051006	CA 2005-2560584	20050322
EP 1727822	A1	20061206	EP 2005-729066	20050322
R:	AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LI, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR			
JP 2007530455	T	20071101	JP 2007-504223	20050322
US 20070243612	A1	20071018	US 2007-593851	20070522
PRIORITY APPLN. INFO.:			US 2004-556972P	P 20040326
			US 2005-649211P	P 20050202
			WO 2005-CA423	W 20050322
OTHER SOURCE(S):	CASREACT 143:346899; MARPAT 143:346899			
GI				



I



II

AB Title compds. I [R1 and R2 independently = H, OH, alkoxy, etc.; R3 = H, NH2, SH, etc.; R4 = NH2, NH-alkyl, P(O)(OH)2, etc.] and their pharmaceutically acceptable salts, are prepared and disclosed as modulators of cell proliferation. Thus, e.g., II was prepared by amidation of Me cyanoacetate with benzylamine followed by coupling with 3,4-dimethoxycinnamaldehyde (preparation given) and subsequent demethylation. The activity of II towards killing of Ly-MN cells was evaluated and it was found that it significantly inhibited cell proliferation and survival at nanomolar doses, and effected a inhibition by 2.5  $\mu$ M. I as modulator of cell proliferation should prove useful in the treatment of a variety of cancers such as leukemia and lymphoma. Pharmaceutical compns. comprising I are disclosed.

IT 866032-88-4P

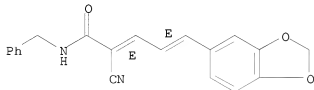
RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(preparation of styrylacrylonitrile derivs. as modulators of cell proliferation)

RN 866032-88-4 CAPLUS

CN 2,4-Pentadienamides, 5-(1,3-benzodioxol-5-yl)-2-cyano-N-(phenylmethyl)-, (2E,4E)- (CA INDEX NAME)

Double bond geometry as shown.



REFERENCE COUNT:

4

THERE ARE 4 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 2 OF 8 CAPLUS COPYRIGHT 2008 ACS on STN

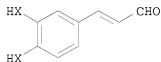
ACCESSION NUMBER: 2005:14344 CAPLUS

DOCUMENT NUMBER: 142:113707

TITLE: A preparation of cinnamaldehyde derivatives, useful for the preparation of  $\alpha,\beta$ -unsaturated cyanoester and cyanoamide compounds

INVENTOR(S): Ruha, Olivier; Oswald, Thomas  
 PATENT ASSIGNEE(S): Lymphosign Inc., Can.  
 SOURCE: PCT Int. Appl., 35 pp.  
 CODEN: PIXXD2  
 DOCUMENT TYPE: Patent  
 LANGUAGE: English  
 FAMILY ACC. NUM. COUNT: 1  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2005000777	A2	20050106	WO 2004-IB2153	20040629
WO 2005000777	A3	20050414		
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW RW: BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
CH 696238	A5	20070228	CH 2003-1149	20030630
CA 2529086	A1	20050106	CA 2004-2529086	20040629
US 20050033090	A1	20050210	US 2004-880430	20040629
EP 1638912	A2	20060329	EP 2004-737208	20040629
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, FI, RO, CY, TR, BG, CZ, EE, HU, PL, SK				
PRIORITY APPLN. INFO.:		CH 2003-1149 A 20030630 WO 2004-IB2153 W 20040629		
OTHER SOURCE(S):		CASREACT 142:113707; MARPAT 142:113707		
GI				



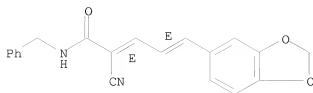
AB The invention relates to a preparation of cinnamaldehyde derivs. of formula I [wherein: X is O or NH], useful for the preparation of  $\alpha,\beta$ -unsatd. cyanoester and cyanoamide compds. For instance, cinnamaldehyde derivative (E)-I (X = O) was prepared from 5-Bromo-2,2-dimethyl-1,3-benzodioxole and 2-vinyl-1,3-dioxolane via Heck reaction and subsequent cleavage with overall yield of 33%.

IT 866032-88-4P  
 RL: IMF (Industrial manufacture); RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)  
 (preparation of cinnamaldehyde derivs. useful for preparation of  $\alpha,\beta$ -unsatd. cyanoester and cyanoamide compds.)

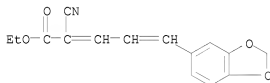
RN 866032-88-4 CAPLUS

CN 2,4-Pentadienamide, 5-(1,3-benzodioxol-5-yl)-2-cyano-N-(phenylmethyl)-, (2E,4E)- (CA INDEX NAME)

Double bond geometry as shown.



L4 ANSWER 3 OF 8 CAPLUS COPYRIGHT 2008 ACS on STN  
 ACCESSION NUMBER: 2003:617629 CAPLUS  
 DOCUMENT NUMBER: 139:292006  
 TITLE: Remarkably Selective Reduction of the  $\alpha,\beta$ -Carbon-Carbon Double Bond in Highly Activated  $\alpha,\beta,\gamma,\delta$ -Unsaturated Alkenes by the InCl<sub>3</sub>-NaBH<sub>4</sub> Reagent System  
 AUTHOR(S): Ranu, Brindaban C.; Samanta, Sampak  
 CORPORATE SOURCE: Department of Organic Chemistry, Indian Association for the Cultivation of Science, Calcutta, 700 032, India  
 SOURCE: Journal of Organic Chemistry (2003), 68(18), 7130-7132  
 CODEN: JOCEAH; ISSN: 0022-3263  
 PUBLISHER: American Chemical Society  
 DOCUMENT TYPE: Journal  
 LANGUAGE: English  
 OTHER SOURCE(S): CASREACT 139:292006  
 AB A combination of Na borohydride and a catalytic amount of In(III) chloride in MeCN reduces exclusively the  $\alpha,\beta$ -C-C double bond in  $\alpha,\beta,\gamma,\delta$ -unsatd. diaryl ketones, dicarboxylic ester, cyanoester, and dicyano compds.  
 IT 608135-58-6  
 RL: RCT (Reactant); RACT (Reactant or reagent) (regioselective reduction of  $\alpha,\beta$ -carbon-carbon double bond in  $\alpha,\beta,\gamma,\delta$ -unsatd. alkenes by InCl<sub>3</sub>-NaBH<sub>4</sub>)  
 RN 608135-58-6 CAPLUS  
 CN 2,4-Pentadienoic acid, 5-(1,3-benzodioxol-5-yl)-2-cyano-, ethyl ester (CA INDEX NAME)



REFERENCE COUNT: 22 THERE ARE 22 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 4 OF 8 CAPLUS COPYRIGHT 2008 ACS on STN  
 ACCESSION NUMBER: 1995:543523 CAPLUS  
 DOCUMENT NUMBER: 122:302887  
 ORIGINAL REFERENCE NO.: 122:54913a, 54916a  
 TITLE: Silver halide photographic material with improved residual color in rapid processing  
 INVENTOR(S): Yamada, Taketoshi; Usagawa, Yasushi; Oonishi, Akira  
 PATENT ASSIGNEE(S): Konishiroku Photo Ind, Japan  
 SOURCE: Jpn. Kokai Tokkyo Koho, 46 pp.  
 CODEN: JKXXAF  
 DOCUMENT TYPE: Patent  
 LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 1  
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 06332113	A	19941202	JP 1993-116088	19930518
PRIORITY APPLN. INFO.:			JP 1993-116088	19930518

GI

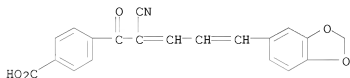
\* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT \*

AB The title photog. material is characterized by  $\geq 1$  photog. constituting layer on a support, which contains  $\geq 1$  compound selected from I-IV [R1,2 = aryl; L1-3 = methine; R3 = H, alkyl, aryl, alkoxy carbonyl, acyl, heterocyclyl; L4-6 = methine; R4-6 = H, alkyl, aryl, heterocyclyl, alkoxy carbonyl, etc.; L7-9 = methine; Z = nonmetallic atomic group forming aromatic ring; R8 = aryl; R9-11 = H, alkyl, aryl, heterocyclyl, alkoxy carbonyl, etc.; R12 = alkylene; L10-12 = methine]. This photog. material can be processed in  $\leq 30$  s.

IT 162959-13-9P  
RL: DEV (Device component use); MOA (Modifier or additive use); SPN (Synthetic preparation); PREP (Preparation); USES (Uses)  
(silver halide photog. material)

RN 162959-13-9 CAPLUS

CN Benzoic acid, 4-[5-(1,3-benzodioxol-5-yl)-2-cyano-1-oxo-2,4-pentadien-1-yl]- (CA INDEX NAME)



L4 ANSWER 5 OF 8 CAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 1975:594493 CAPLUS

DOCUMENT NUMBER: 83:194493

ORIGINAL REFERENCE NO.: 83:30613a,30616a

TITLE: Photodegradable thermoplastics

INVENTOR(S): Lueders, Walter

PATENT ASSIGNEE(S): Hoechst A.-G., Fed. Rep. Ger.

SOURCE: Ger. Offen., 20 pp.  
CODEN: GWXXBX

DOCUMENT TYPE: Patent

LANGUAGE: German

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 2400418	A1	19750717	DE 1974-2400418	19740105
NL 7417032	A	19750708	NL 1974-17032	19741231
DK 7500007	A	19750825	DK 1975-7	19750103
JP 50098949	A	19750806	JP 1975-8	19750104
BE 824121	A1	19750707	BE 1975-152160	19750106
FR 2256946	A1	19750801	FR 1975-202	19750106
PRIORITY APPLN. INFO.:			DE 1974-2400418	A 19740105

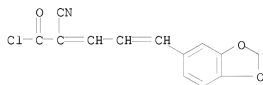


AB A 4-acryloyloxybenzophenone-styrene copolymer (I) [57092-63-4], a vinyl acetate-vinyl benzophenone-4-carboxylate copolymer [57092-66-7], a poly(vinyl alc.) cinnamate ester [9050-06-0], or a similar light sensitizer was mixed with polypropylene (II) [9003-07-0], polystyrene [9003-53-6], or a ethylene oxide-trioxane copolymer [24969-25-3] to prepare plastics which decomposed rapidly in uv light, e.g., after use as packaging materials. Thus, a mixture of ethylbenzene 50, styrene 35.1, 4-acryloylbenzophenone 29.5, and Bz202 0.1 part was heated 48 hr at 130° to prepare I. A 30:100 I-II mixture became brittle after 95 hr in uv light, compared with 165 hr for II.

IT 27847-45-6  
 RL: RCT (Reactant); RACT (Reactant or reagent)  
 (esterification by, of poly(vinyl alc.))

RN 27847-45-6 CAPLUS

CN 2,4-Pentadienoyl chloride, 5-(1,3-benzodioxol-5-yl)-2-cyano- (CA INDEX NAME)



IT 57176-28-0  
 RL: USES (Uses)  
 (light sensitizers, for degradation of plastics)

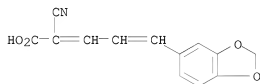
RN 57176-28-0 CAPLUS

CN Ethenol, homopolymer, 5-(1,3-benzodioxol-5-yl)-2-cyano-2,4-pentadienoate (9CI) (CA INDEX NAME)

CM 1

CRN 174819-61-5

CMF C13 H9 N O4



CM 2

CRN 9002-89-5

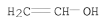
CMF (C2 H4 O)x

CCI PMS

CM 3

CRN 557-75-5

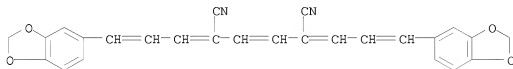
CMF C2 H4 O



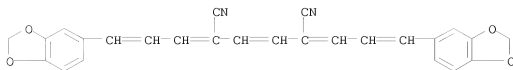
L4 ANSWER 6 OF 8 CAPLUS COPYRIGHT 2008 ACS on STN  
 ACCESSION NUMBER: 1973:406789 CAPLUS  
 DOCUMENT NUMBER: 79:6789  
 ORIGINAL REFERENCE NO.: 79:1139a  
 TITLE: Polymethine dyes  
 PATENT ASSIGNEE(S): N. V. Philips' Gloeilampenfabrieken  
 SOURCE: Fr. Demande, 13 pp.  
 CODEN: FRXXBL  
 DOCUMENT TYPE: Patent  
 LANGUAGE: French  
 FAMILY ACC. NUM. COUNT: 2  
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
FR 2143472	A1	19730202	FR 1972-22989	19720626
FR 2143472	B1	19730713		
NL 7108769	A	19721228	NL 1971-8769	19710625
NL 165489	B	19801117		
NL 165489	C	19810415		
GB 1350854	A	19740424	GB 1972-29268	19720622
CH 557855	A	19750115	CH 1972-9372	19720622
BE 785401	A1	19721227	BE 1972-119141	19720623
JP 54010975	B	19790511	JP 1972-63345	19720626
JP 53127544	A	19781107	JP 1978-25551	19780308
JP 54021376	B	19790730		

PRIORITY APPLN. INFO.: NL 1971-8769 A 19710625  
 AB Comps. of the general formula R(R<sub>2</sub>m)CH:C(CN)C(Y):C(Y1)C(CN):CH(R<sub>3</sub>)m1R<sub>1</sub> (I), where R and R<sub>1</sub> = aryl group and R<sub>2</sub> and R<sub>3</sub> = alkenyl group, Y and Y<sub>1</sub> = H, alkyl, or aryl groups, m and m<sub>1</sub> = 0 or 1 were prepared and were used for dyeing poly(vinyl chloride) [9002-86-2], polystyrene [9003-53-6], cellulose acetate [9004-35-7], and polyester and polyamide textiles light-resistant shades. Thus, polymethine dye (I, R = R<sub>1</sub> = p-Me<sub>2</sub>CHC<sub>6</sub>H<sub>4</sub>, R<sub>2</sub> = R<sub>3</sub> = CH:CH, m = m<sub>1</sub> = 1, Y = Y<sub>1</sub> = H) [40538-07-6] was prepared from p-Me<sub>2</sub>CHC<sub>6</sub>H<sub>4</sub>CH:CHCHO and 1,4-dicyano-2-butene.  
 IT 41520-51-8  
 RL: MSC (Miscellaneous)  
 (dyes, for synthetic resins and cellulose acetate, light-resistant)  
 RN 41520-51-8 CAPLUS  
 CN 3-Hexenedinitrile, 2,5-bis[3-(1,3-benzodioxol-5-yl)-2-propenylidene]-(9CI) (CA INDEX NAME)



IT 41520-51-8P  
 RL: IMF (Industrial manufacture); PREP (Preparation)  
 (preparation of)  
 RN 41520-51-8 CAPLUS  
 CN 3-Hexenedinitrile, 2,5-bis[3-(1,3-benzodioxol-5-yl)-2-propenylidene]-(9CI) (CA INDEX NAME)



L4 ANSWER 7 OF 8 CAPLUS COPYRIGHT 2008 ACS on SIN

ACCESSION NUMBER: 1970:122396 CAPLUS

DOCUMENT NUMBER: 72:122396

ORIGINAL REFERENCE NO.: 72:22037a,22040a

TITLE: Photocrosslinkable  $\alpha$ -cyanoacrylic acid esters

PATENT ASSIGNEE(S): Farbwerke Hoechst A.-G.

SOURCE: Fr. Demande, 28 pp.

CODEN: FRXXBL

DOCUMENT TYPE: Patent

LANGUAGE: French

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
FR 2004338	----	19691121	FR 1969-8116	19690320
DE 1770003			DE	
GB 1255692			GB	
US 3699086		19721017	US	19690319
ZA 6901981		19690000	ZA	
			DE	19680320

PRIORITY APPLN. INFO.:

AB The title compds which can be used alone or mixed with other polymers for preparing photocrosslinkable coatings are made by treating an acid chloride, e.g. benzylidene-ta-cyanoacetic acid chloride (I) or cinnamylidene- $\alpha$ -cyanoacetic acid chloride, with a polyfunctional hydroxyl compound in the presence of a tertiary amine. Thus, 5.63 g poly(vinyl alc.) (II) was kept overnight in 50 ml anhydrous C5H5N at 100°, diluted with 50 ml C5H5N, cooled to 50°, a solution of 0.25 g 1,4-diazabicyclooctane in 5 ml C5H5N added with 10.2 g I, the mixture stirred 8 hr, diluted with Me2CO, filtered, and the filtrate poured into H2O to give, after drying, 13 g of a fibrous product soluble in dioxane. The dioxane solution was applied on roughened Al sheets and irradiated 15 min with a Xe lamp, yielding an insol. film. Acetyl cellulose, C2H4-vinyl alc. copolymers, epoxy resins, or poly(vinyl butyral) were used instead of II. Some other tertiary amines used were Me3N, or N,N,N',N'-tetramethyl - 1,4-diaminobutane.

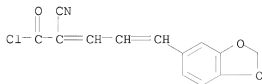
IT 27847-45-6

RL: USES (Uses)

(vinyl alc. polymers modified by, coatings)

RN 27847-45-6 CAPLUS

CN 2,4-Pentadienoyl chloride, 5-(1,3-benzodioxol-5-yl)-2-cyano- (CA INDEX NAME)



L4 ANSWER 8 OF 8 CAPLUS COPYRIGHT 2008 ACS on SIN

ACCESSION NUMBER: 1935:33542 CAPLUS

DOCUMENT NUMBER: 29:33542  
 ORIGINAL REFERENCE NO.: 29:43451,4346a-c  
 TITLE: Syntheses of isomeric phenylbutadienecarboxylic acids.  
 II. Synthesis of isochavicol acid  
 AUTHOR(S): Lohaus, Hermann; Gall, Hubert  
 SOURCE: Justus Liebigs Annalen der Chemie (1935), 517, 278-89  
 CODEN: JLABCF; ISSN: 0075-4617  
 DOCUMENT TYPE: Journal  
 LANGUAGE: Unavailable

AB cf. C. A. 29, 1405.5. Piperic acid aldehyde (Scholtz, Ber. 28, 1368 (1895)) yields a phenylhydrazone, yellow, m. 158-9°, and 2 oximes, m. 171° and 195°. Piperonylacrolein (I) and Br in AcOH give  $\alpha$ -bromo-cis-piperonylacrolein (II), yellow, m. 104° (oxime, m. 182°), and 6-bromo- $\alpha$ -bromopiperonylacrolein, yellow, m. 131° (oxime, m. 205°). I (9 g.) and CH<sub>2</sub>(CO<sub>2</sub>Me)<sub>2</sub> with a little piperidine give 3.2 g. di-Me 3,4-methylenedioxy-cinnamalmalonate (III), light yellow, m. 111°. II gives the  $\gamma$ -Br derivative of III, golden yellow, m. 126°. I and NCCH<sub>2</sub>CO<sub>2</sub>Me give 75% of the Me ester, m. 189°, of 3,4-methylenedioxy-cinnamalcyanoacetic acid, m. 169°; Et ester, orange-yellow, m. 134°; II gives the Me ester of the  $\gamma$ -Br derivative, red-brown, m. 167°. II, AC<sub>2</sub>O and AcONa, refluxed 5 hrs., give the  $\gamma$ -Br derivative of IV, m. 216° (Na salt; Me ester, pale yellow, m. 120-1°); reduction of the Na salt with Zn in 90% EtOH gives isochavicol acid (IV), yellow-brown, m. 138-9°, and piperic acid (principal product); thus IV is 3,4-methylenedioxy- $\alpha$ -trans- $\gamma$ -cis-cinnamalacetic acid.

IT 174819-61-5,  $\alpha$ , $\gamma$ -Pentadienoic acid,  
 $\alpha$ -cyano- $\delta$ -(3,4-methylenedioxyphenyl)-  
 (esters)

RN 174819-61-5 CAPLUS

CN 2,4-Pentadienoic acid, 5-(1,3-benzodioxol-5-yl)-2-cyano- (CA INDEX NAME)

